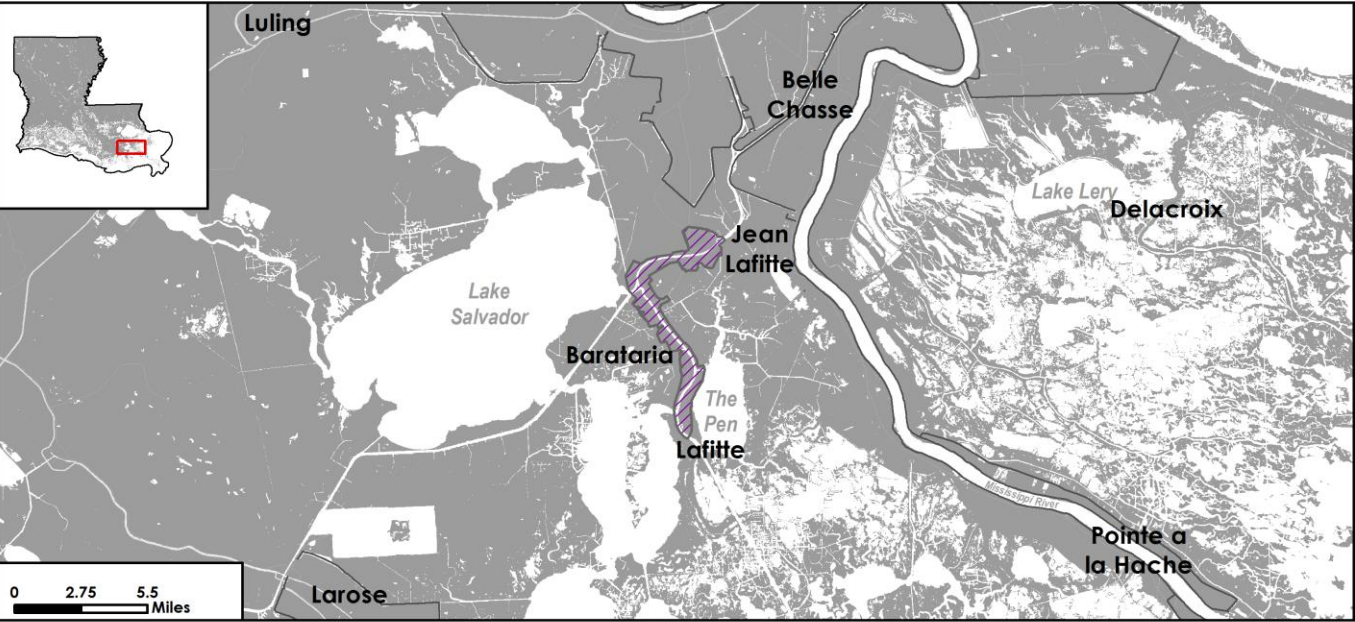# Jefferson - Lafitte/Barataria
Nonstructural Risk Reduction
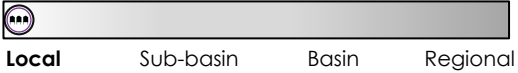Project ID: JEF.02N

Description

Project includes floodproofing non-residential properties where 100-year flood depths are 1-3 feet, elevating residential properties where 100-year flood depths are 3-14 feet, and acquiring residential properties where 100-year flood depths are greater than 14 feet.

Scale of Influence

Local	Sub-basin	Basin	Regional

Project Location

Jefferson Parish

Project Duration

Construction is estimated to take 5 years.

Note:

Cost Estimate does not represent specific residential or commercial structures to be mitigated.

Project Cost Estimate

Voluntary Measure	Structures Mitigated	Estimated Cost
Non-residential Floodproofing	9	$7,800,000
Residential Elevation	1,237	$192,100,000
Residential Acquisition	2	$1,000,000
Total	**1,248**	**$200,900,000**

Other Nearby Projects in the Master Plan
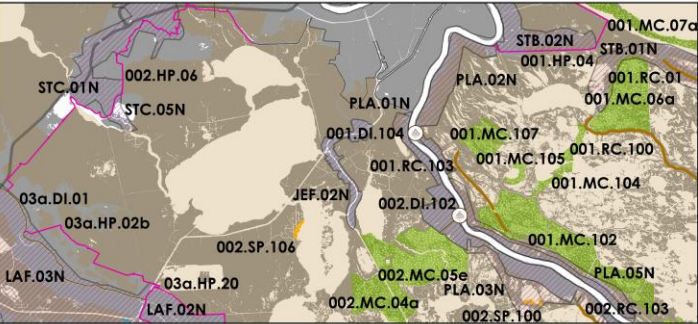
Other Project Area Statistics

Estimated Current Population *U.S. Census (2010), U.S. Dept. of Energy Oak Ridge National Laboratory, Land Scan (2011)*	4,955
Percent of Population who are Low-to-Moderate Income *American Community Survey (2006-2010)*	42%
Number of Severe Repetitive Loss Properties *Governor's Office of Homeland Security (2015)*	153

2017 Coastal Master Plan

Implementation Period I

Jefferson - Lafitte/Barataria
Nonstructural Risk Reduction
Project ID: JEF.02N

Economic Damage

Nonstructural risk reduction projects are evaluated by how they reduce Expected Annual Damage (EAD) for a particular area. EAD represents the average direct economic damage projected to result from storm surge flooding events, from Category 1 or greater storms, in any given year, taking into account both the expected damage and the overall frequency of such storms occurring. EAD is a summary measure of the potential damage averaged over the entire distribution of possible flood events. Damage is also summarized at various return periods (DRP), e.g., 100-year damage being the damage with a 1% chance of occurring or being exceeded in a given year. The following are the economic damage summaries for the Future Without Action (FWOA) and Future With Project (FWP) conditions for EAD (Table 1) and by return period (Table 2). EAD and DRP values are reported in millions of dollars.

Table 1: Expected Annual Damage

Year	FWOA	FWP	Difference
0	$102 M	-	-
10	$93 M	$69 M	**$24 M**
25	$117 M	$91 M	**$27 M**
50	$105 M	$89 M	**$16 M**

Table 2: Economic Damage by Return Period

Year	50 Year		100 Year		500 Year	
	FWOA	FWP	FWOA	FWP	FWOA	FWP
0	$1,717 M	-	$1,773 M	-	$1,837 M	-
10	$1,674 M	$1,264 M	$1,785 M	$1,331 M	$1,815 M	$1,360 M
25	$1,735 M	$1,314 M	$1,762 M	$1,501 M	$1,785 M	$1,681 M
50	$1,299 M	$1,222 M	$1,321 M	$1,269 M	$1,342 M	$1,313 M